

MST-C

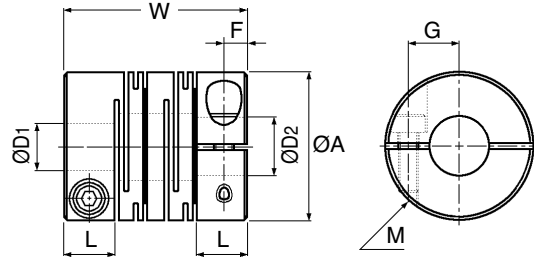
COUPLINGS

Miniature Aluminium 8 Slit Flexible Coupling

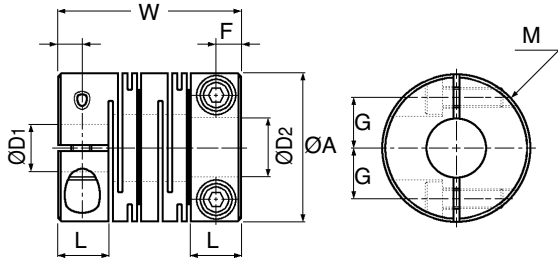
Clamp Fixing : 0.2 - 40Nm, 4 - 30mm Bores



MST-12C
to
MST-32C



MST-40C
to
MST-63C



Features

- High torsional stiffness and response
- Moment of low inertia
- Zero backlash

Discounts: 6+ -10% 16+ -15% 41+ -20% 100+ -25% 200+ -30% 400+ -35%

Part Number	Standard Bores ØD1 ØD2	Max. Bore	ØA	L	W	F	G	M	Price Each 1 - 5
MST-12C	4 4	5	12	5.0	18.5	2.50	4.0	M2	£29.38
MST-16C	4.5 5	6	16	6.5	23.0	3.25	5.0	M2.5	£28.02
MST-20C	5 6	8	20	7.5	26.0	3.75	6.5	M2.5	£31.27
MST-25C	5 6	10	25	8.5	31.0	4.25	9.0	M3	£39.43
MST-32C	8 8	14	32	12.0	41.0	6.00	11.0	M4	£51.82
MST-40C	8 8	18	40	17.0	56.0	8.50	14.0	M5	£97.82
MST-50C	12 14	22	50	21.0	71.0	10.50	18.0	M6	£139.82
MST-63C	14 14	30	63	26.0	90.0	13.00	24.0	M8	£183.70

Part Number	Wrench Torque Nm	Rated Torque Nm	Max. Torque Nm	Max. rpm min ⁻¹	Moment of Inertia kg•m ²	Static Torsional Stiffness Nm/rad	Max Parallel Offset mm	Max Angular Offset	Max Axial End-Play mm	Mass g
MST-12C	0.5	0.2	0.4	12000	7.8x10 ⁻⁸	35	0.10	2°	± 0.3	3.6
MST-16C	1.0	0.3	0.6	9500	3.4x10 ⁻⁷	47	0.10	2°	± 0.4	9.2
MST-20C	1.0	0.5	1.0	7600	9.1x10 ⁻⁷	120	0.10	2°	± 0.4	16.0
MST-25C	1.5	1.0	2.0	6100	2.6x10 ⁻⁶	170	0.15	2°	± 0.5	28.0
MST-32C	2.5	2.0	4.0	4800	9.7x10 ⁻⁶	280	0.15	2°	± 0.5	64.0
MST-40C	4.0	5.0	10.0	3800	3.3x10 ⁻⁵	350	0.20	2°	± 0.5	140.0
MST-50C	8.0	10.0	20.0	3100	1.0x10 ⁻⁴	590	0.20	2°	± 0.5	270.0
MST-63C	16.0	20.0	40.0	2400	3.2x10 ⁻⁴	850	0.20	2°	± 0.5	530.0

The maximum torque of the miniature coupling is two-fold of the rated torque.

Select a type in which torque generated during continuous operation does not exceed the rated torque of the miniature coupling.

Material

Aluminium alloy, Anodic Oxide coated.

Performance

Maximum Operating Temperature: 100°C.(approx.)

Outside Diameter Range: 12mm to 63mm (wide variation).

Ordering

e.g. MST-25C - Ø8 x Ø10

Type _____

ØD1 _____

ØD2 _____

Options

The MST-C coupling can be bored out for larger bore sizes.

Also available in 303 & 416 stainless steel and with set screw fixing.

Other Info.

Flexible couplings transmit torque and rotational angle while absorbing misalignment. When the misalignment exceeds allowable values, vibration may result or the life of the coupling may become shortened. Make sure to adjust the alignment accordingly.

There are three types of shaft misalignment, namely in terms of parallel misalignment, angular misalignment and shaft end-play. Adjust the alignment to be below allowable values listed in the specification table of each miniature coupling. The maximum misalignment listed within this range is the allowable value only when one of the misalignments exists. In case two or more misalignments exist at the same time, the allowable values will be less than 50% of the maximum misalignment listed in the specification tables. Misalignments are sometimes caused not only by equipment assembly, but also by vibration, heat expansion, wear of bearings, etc during operation. Therefore, it is recommended to adjust the shaft misalignment to be below 1/2 of maximum values.

Important: Couplings and other rotational parts should be protected by covers for safety operation. Also, take note that operation under misalignment exceeding maximum values and excessive torque may result in shorter life of the coupling due to plastic deformation.

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Product information updated 1st April 2011 and subject to change. Please contact Sales for the latest prices and availability.